SEQUENCE LISTING

<110> Conti, Elena Bayliss, Richard Schultz, Carsten

Vernos, Isabelle Sardon, Teresa

<120> Crystals of an Aurora-A TPX2 Complex, TPX2 Binding Site of Aurora-A, Aurora-A Ligands and Their Use

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<140> 10/574,575 <141> 2006-04-04

<150> EP 03023136.9 <151> 2003-10-10

<150> PCT/EP04/011381

<151> 2004-10-11

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Glu Lys Ala Gly Val Glu His Gln Leu Arg Arg Glu Val Glu Ile Gln

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Ser His Leu Arg His Pro Asn Ile Leu Arg Leu Tyr Gly Tyr Phe His
65 70 75 80

Asp Ala Thr Arg Val Tyr Leu Ile Leu Glu Tyr Ala Pro Leu Gly Thr 85 90 95

Val Tyr Arg Glu Leu Gln Lys Leu Ser Lys Phe Asp Glu Gln Arg Thr 100 105 110

Ala Thr Tyr Ile Thr Glu Leu Ala Asn Ala Leu Ser Tyr Cys His Ser 115 120 125

Lys Arg Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Gly 130 135 140

Ser Ala Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala 145 150 155 160

Pro Ser Ser Arg Arg Thr Thr Leu Cys Gly Thr Leu Asp Tyr Leu Pro 165 170 175
Pro Glu Met Ile Glu Gly Arg Met His Asp Glu Lys Val Asp Leu Trp 180 185 190
Ser Leu Gly Val Leu Cys Tyr Glu Phe Leu Val Gly Lys Pro Pro Phe 195 200 205
Glu Ala Asn Thr Tyr Gln Glu Thr Tyr Lys Arg Ile Ser Arg Val Glu 210 215 220
Phe Thr Phe Pro Asp Phe Val Thr Glu Gly Ala Arg Asp Leu Ile Ser 225 230 235 240
Arg Leu Leu Lys His Asn Pro Ser Gln Arg Pro Met Leu Arg Glu Val 245 250 255
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Glu Ser Lys Phe	lle Leu Ala	Leu Lys Val L	eu Phe Lys Ser Gln Leu

Glu Lys Ala Gly Val Glu His Gln Leu Arg Arg Glu Val Glu Ile Gln 50 55 60

45

Ser His Leu Arg His Pro Asn Ile Leu Arg Leu Tyr Gly Tyr Phe His 65 70 75 80

Asp Ala Ser Arg Val Tyr Leu Ile Leu Asp Tyr Ala Pro Gly Gly Glu 85 90 95

Ala Met Tyr Ile Lys Gln Leu Ala Glu Ala Leu Leu Tyr Cys His Ser

125

Leu Phe Arg Glu Leu Gln Lys Cys Thr Arg Phe Asp Asp Gln Arg Ser

110

105

120

Lys Lys Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Gly
130 135 140

Ser Asn Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala 145 150 155 160

Pro Ser Ser Arg Arg Thr Thr Leu Cys Gly Thr Leu Asp Tyr Leu Pro 165 170 175

Pro Glu Met Ile Glu Gly Arg Met His Asp Glu Thr Val Asp Leu Trp

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Ser Leu Gly Val Leu Cys T	yr Glu Phe Leu Val Gly Lys Pro Pro Phe
195 200	205
Glu Thr Asp Thr His Gln G	ilu Thr Tyr Arg Arg Ile Ser Lys Val Glu
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Phe Gln Tyr Pro Pro Tyr V:	al Ser Glu Glu Ala Arg Asp Leu Val Ser
225 230	235 240
Lys Leu Leu Lys His Asn F	Pro Asn His Arg Leu Pro Leu Lys Gly Val
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Phe Ile Leu Ala Leu Lys Val Leu Phe Lys Lys Gl
n Leu Glu Lys Ala

Arg Arg Ser Thr Leu Cys Gly Thr Leu Asp Tyr Leu Pro Pro Glu Met

Ile Glu Gly Lys Thr His Asp Glu Lys Val Asp Leu Trp Ser Leu Gly

Val Leu Cys Tyr Glu Phe Leu Val Gly Lys Pro Pro Phe Glu Ala Lys

Thr His Glu Glu Thr Tyr Arg Arg Ile Ser Arg Val Glu Tyr Thr Tyr 210 215 220
Pro Ala His Thr Asn Ile Ser Asp Gly Ala Lys Asp Leu Val Ser Arg 225 230 235 240
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Glu Ser Gln Phe Val Val Ala Leu Lys Val Leu Phe Lys Arg Gln Ile 35 40 45

Gly Glu Ser As
n Val Glu His Gln Val Arg Arg Glu Ile Glu Ile Gl
n 50 55 60

Ser His Leu Arg His Pro His Ile Leu Arg Leu Tyr Ala Tyr Phe His 65 70 75 80

Asp Asp Va	al Arg Ile Tyr	Leu Ile Leu	Glu Tyr Ala Pr	o Gln Gly Thr
85	5 9	90 9	95	

Leu Phe As
n Ala Leu Gin Ala Gin Pro Met Lys Arg Phe Asp Glu Arg
 $100 \qquad 105 \qquad 110$

Gln Ser Ala Thr Tyr lle Gln Ala Leu Cys Ser Ala Leu Leu Tyr Leu 115 120 125

His Glu Arg Asp Ile Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu 130 135 140

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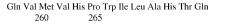
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Leu Trp Ser Leu Gly Val Leu Cys Phe Glu Leu Leu Val Gly His Ala 195 200 205

Pro Phe Tyr Ser Lys Asn Tyr Asp Glu Thr Tyr Lys Lys Ile Leu Lys 210 215 220

Val Asp Tyr Lys Leu Pro Glu His Ile Ser Lys Ala Ala Ser His Leu 225 230 235 240

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n Pro Gl
n His Arg Leu Pro Leu Asp $245 \hspace{0.2in} 250 \hspace{0.2in} 255$



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Pro Leu Gly Lys Gly Lys Phe Gly As
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Lys Thr Lys Arg lle lle Ala Leu Lys Val Leu Phe Lys Thr Gln Leu 35 40 45

Leu Gln Leu Gly Val Ser His Gln Leu Lys Arg Glu Ile Glu Ile Gln 50 55 60

Tyr His Leu Arg His Pro As
n Ile Leu Thr Leu Tyr Gly Tyr Phe His 65 707580

Asp Asp Lys Arg Val Phe Val Ile Leu Asp Tyr Ala Ser Arg Gly Glu $85 9095$

Leu Phe Asn Val Leu Gln Ser Gln Pro Gly His Lys Val Asn Glu Val 100 105 110

lle Ala Gly Arg Phe Val Arg Gln Leu Ala Asn Ala Leu His Tyr Cys 115 120 125

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Val Ala Asp His Ser Lys Arg His Thr Leu Cys Gly Thr Met Asp Tyr

Leu Ala Pro Glu Met Val Ser Asn Gln Pro His Asp Phe Asn Val Asp

Pro Phe Ala Asn Gln Thr Gly Asp Lys Leu Ile Ala Arg Ile Lys Glu

Ile Trp Ala Ile Gly Ile Leu Leu Phe Glu Met Leu Val Gly Tyr Ala

Cys Lys Ile Tyr Ile Pro Ser Val Val Thr Asp Gly Ala Ala Ser Leu

Ile Asn Ala Ile Ile Lys Lys Glu Pro Gln Glu Arg Leu Pro Leu Val

Asp Ile Met Ala His Pro Trp Ile Lys Glu Met Lys Gln Arg Glu Asp

Ile Glu Val Pro Leu Phe Ile Ser Thr Leu Thr Lys

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Lys Ser His Phe Ile Val Ala Leu Lys Val Leu Phe Lys Ser Gln Ile

Glu Lys Glu Gly Val Glu His Gln Leu Arg Arg Glu Ile Glu Ile Gln

Ala His Leu His His Pro Asn Ile Leu Arg Leu Tyr Asn Tyr Phe Tyr

Asp Arg Arg Arg Ile Tyr Leu Ile Leu Glu Tyr Ala Pro Arg Gly Glu

Leu Tyr Lys Glu Leu Gln Lys Ser Cys Thr Phe Asp Glu Gln Arg Thr

Ala Thr Ile Met Glu Glu Leu Ala Asp Ala Leu Met Tyr Cys His Gly Lys Lys Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Gly

Leu Lys Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala

Pro Ser Leu Arg Arg Lys Thr Met Cys Gly Thr Leu Asp Tyr Leu Pro 165 170 175
Pro Glu Met Ile Glu Gly Arg Met His Asn Glu Lys Val Asp Leu Trp 180 185 190
Cys Ile Gly Val Leu Cys Tyr Glu Leu Leu Val Gly Asn Pro Pro Phe 195 200 205
Glu Ser Ala Ser His Asn Glu Thr Tyr Arg Arg Ile Val Lys Val Asp 210 215 220
Leu Lys Phe Pro Ala Ser Val Pro Thr Gly Ala Gln Asp Leu Ile Ser 225 230 235 240
Lys Leu Leu Arg His Asn Pro Ser Glu Arg Leu Pro Leu Ala Gln Val 245 250 255
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35	40	45	

Glu Lys Glu Gly Val Glu His Gln Leu Arg Arg Glu Ile Glu Ile Gln 50 55 60

Ser His Leu Arg His Pro Asn Ile Leu Arg Met Tyr Asn Tyr Phe His
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Asp Arg Lys Arg Ile Tyr Leu Met Leu Glu Phe Ala Pro Arg Gly Glu

90

Leu Tyr Lys Glu Leu Gln Lys His Gly Arg Phe Asp Glu Gln Arg Ser

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Ala Thr Phe Met Glu Glu Leu Ala Asp Ala Leu His Tyr Cys His Glu
115 120 125

Arg Lys Val Ile His Arg Asp Ile Lys Pro Glu Asn Leu Leu Met Gly 130 135 140

Tyr Lys Gly Glu Leu Lys Ile Ala Asp Phe Gly Trp Ser Val His Ala 145 150 155 160

Pro Ser Leu Arg Arg Arg Thr Met Cys Gly Thr Leu Asp Tyr Leu Pro $165 170175$

Pro Glu Met Ile Glu Gly Lys Thr His Asp Glu Lys Val Asp Leu Trp

Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys

55

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Glu Ser Gly Asn His Tyr Ala Met Lys Ile Leu Asp Lys Gln Lys Val 35 40 45

Val Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu

60

Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys 65 70 75 80

Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Ala Gly Gly Glu 85 90 95

Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala

110

105

Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser 115 120 125

Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu As
n Leu Leu Ile Asp 130 135 140

Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val 145 150 155 160

Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro 165 170 175

Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala 180 185 190

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<220>

<223> vertebrate or mammalian

<400> 14

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